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Neu eingegangene Arbeiten

K.-M. Chung und B. Mrowka, Institut für Theoretische Physik der Universität Frankfurt am Main:

Neue Beiträge zur Theorie der elektrischen Widerstandsänderungen im Magnetfeld

For the calculation of the change of resistance by magnetic fields, an improved wave function is given for the first time which describes the motion of an electron in the perpendicularly crossed uniform $\mathfrak{B}$ and $\mathfrak{E}$ fields exactly. The effect of the periodical potential and the lattice vibrations has been taken into account as perturbation according to the Kubo method. The final result contains only observables and is free from any adjustable parameters. The influence of the lattice periodicity to the final result for strong magnetic fields is small in comparison with the effect of the vibrations and a closed expression for final result is obtained. The result shows a reasonably good agreement with the observed values for Cd by 78 °K in range 200 ~ 300 kG.

K. Fröhlich and L. Keszthelyi, Central Research Institute of Physics, Budapest, Hungary:

Study of Glass Transitions in Frozen Aqueous Solutions of Iron (II) Salts

Quickly frozen $Fe(ClO_4)_2/H_2O$ and $FeCl_2/H_2O$ solutions of different concentrations were studied simultaneously by Mössbauer effect and differential thermoanalysis. The faroff-resonance, zero-velocity transmission of 14.4 keV γ-radiation and the DTA curves were measured as functions of the temperature of the sample. Jumps in far-off-resonance transmission of apparently random size and direction were demonstrated to appear at ~ -110 °C. By visual observation of the samples, cracks were seen below ~ -110 °C which disappeared above this temperature. The random jumps were probably caused by the scattering of X-rays on the irregular surfaces of cracks.

G. von Holtey, G. Knop, H. Stein, J. Stümpfig, and H. Wahlen, Physikalisches Institut der Universität Bonn:

Coherent π^0-Photoproduction on Deuterium in the First Resonance Region

Differential cross section for coherent π^0-photoproduction from deuterium have been measured in the photon energy range from 240 to 400 MeV and for pion c.m. angles between 70° and 160°. The recoil deuterons were analysed in angle and momentum by a magnetic spectrometer. The cross sections obtained were higher by a factor of about 2 compared with the results from Stanford, the only data available up to now in the first resonance region. Below the resonance the measured cross sections give a smooth extension to the low energy data from Glasgow and Orsay.

R. Bausch, Institut für Festkörperforschung, KFA Jülich:
Scaling Laws Connecting Tricritical and Normal Critical Exponents for Dimensions $d \leqq 3$

The method of Imry, Deutscher, Bergman and Alexander for deriving interdimensional scaling laws is used in a modified form to establish scaling relations between tricritical and normal critical exponents. These relations are expected to hold for dimensions $d \leqq 3$. The tricritical behaviour for $d = 3$ and $d > 3$ has previously been discussed by Wegner and Riedel and by the author.

W. Klose, Fachbereich Physik der Universität des Saarlandes, 66 Saarbrücken,
A. Müller, Forschungslaboratorium der Siemens AG Erlangen, 852 Erlangen:
Supraleitung in Ternären Phasen Be_{22} (Mo, Re)

We present a new model for the superconducting properties of Be_{22} X-lattices and report on first measurements of T_c in Be_{22} (Mo, Re)-phases.

A. Heidemann, H. Wettengel, Physik-Department der Technischen Universität München, Germany:
Die Messung der Gitterparameteränderung von $SrTiO_3$ (The Change of Lattice Parameters of $SrTiO_3$)

By backscattering of neutrons the lattice parameter change of single crystal $SrTiO_3$ was measured as a function of temperature from 10 to 130 °K. Good agreement with older neutron results was obtained in the temperature range from 77 to 130 °K. From 10 to 78 °K our results deviated strongly from those formerly observed with X-rays. No indication of a phase transition near 65 °K could be found. The results are compared with a theory for the tetragonal distortion of $SrTiO_3$ recently formulated by Feder and Pytte.

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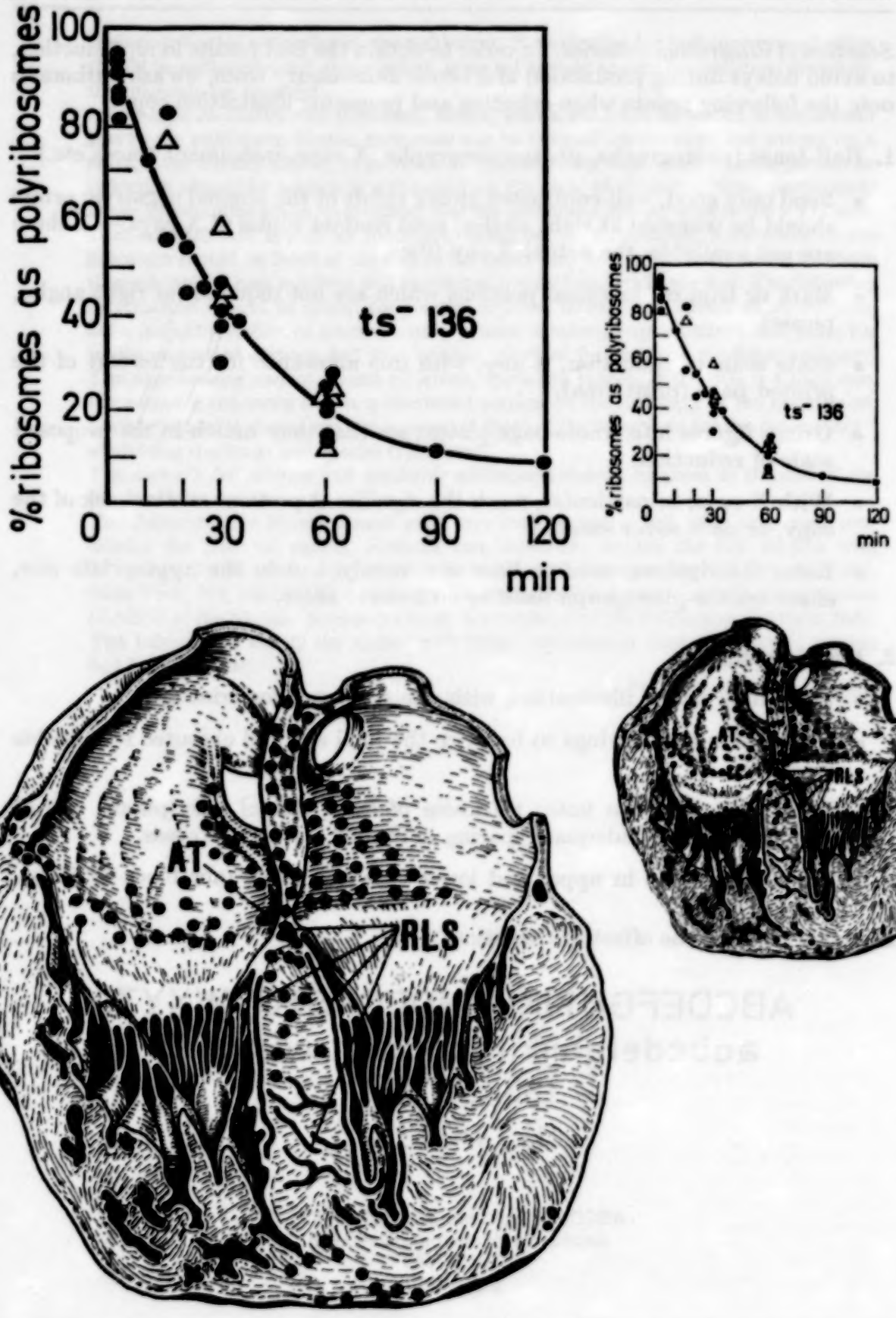

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